



Manufacturing

Manufacturing is a major component of Missouri's \$321.7 billion economy. It represents 11.8 percent (\$37.97 billion) of the 2020 total Gross State Product (GSP). Nationally, manufacturing contributed 10.8 percent to the total GDP. Compound annual growth (CAGR) over the past five years in Missouri's manufacturing GSP averaged -0.7 percent; nationally the CAGR was 1.3 percent.

Manufacturing accounts for 11.7 percent of the state's private sector employment with 266,439 jobs across 6,864 establishments. The industry has added 5,111 jobs since 2015, growing 0.39 percent per year over five years compared to -0.3 percent national growth rate over the same period. In 2020, Missouri's manufacturing employment declined by 10,665, whereas manufacturing employment nationwide declined by 693,046 when compared to 2019. Declines in both Missouri and the U.S. are in part due to the impact of the COVID-19 pandemic.

MANUFACTURING

BY THE NUMBERS:

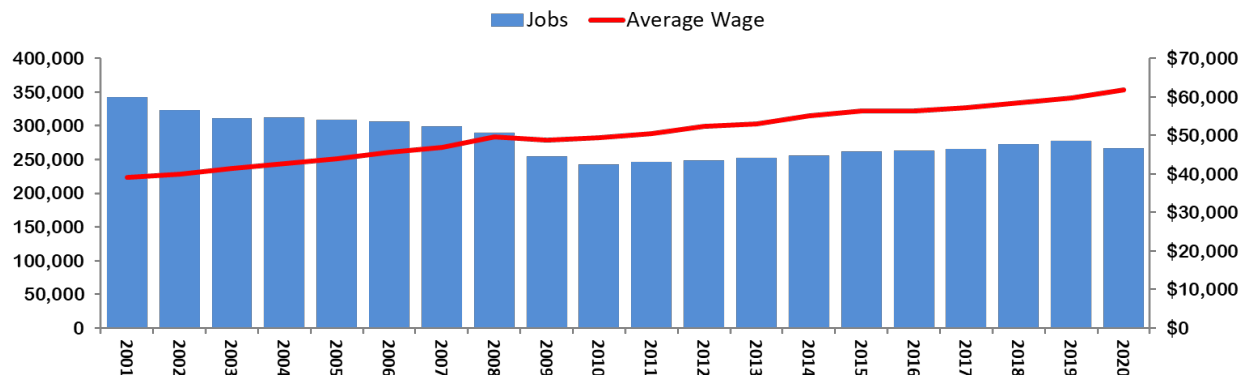
266,439
EMPLOYMENT

11.8 PERCENT
TOTAL GSP SHARE

\$61,842
AVERAGE WAGE

Manufacturing wages continue to grow statewide and nationally. Missouri's 2020 manufacturing payroll totaled \$16.48 billion, a \$61,842 average annual wage, which is higher than the state's \$54,776 average wage for all private sector industries.

**Missouri Manufacturing Employment and Wages
2001 - 2020**

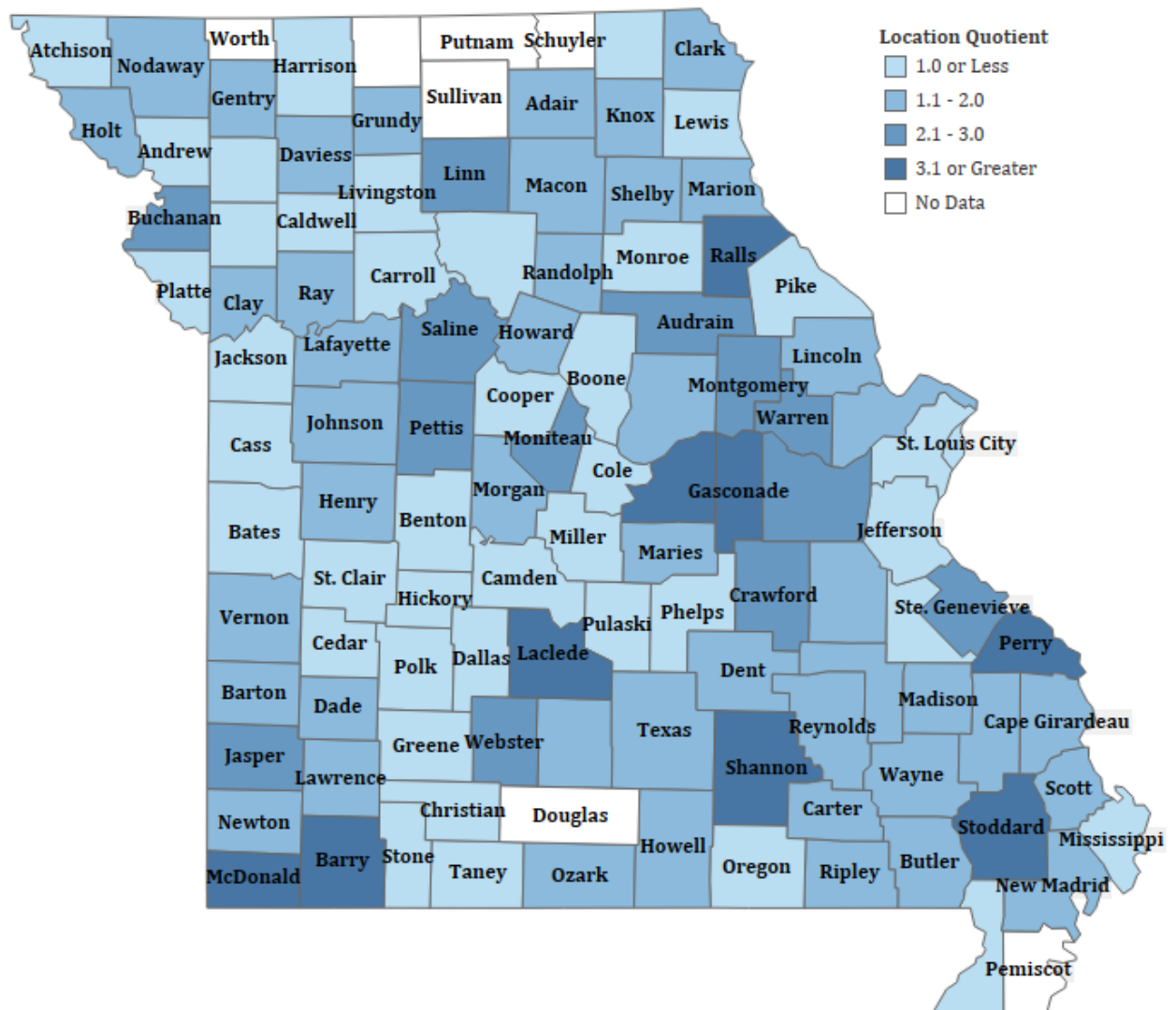


Source: U.S. Bureau of Labor Statistics

Location Quotient Analysis

Location Quotient (LQ) compares the regional share of an industry to the national share so that a LQ over 1 indicates sectors of employment concentration. Missouri, with a manufacturing industry LQ of 1.15, has a greater share of its workers employed in the manufacturing sector than the nation as a whole. Fifty-nine percent, or 67 out of Missouri's 114 counties, have a LQ over one, demonstrating a greater specialization in manufacturing compared to the nation.

2020 Manufacturing Location Quotient by County

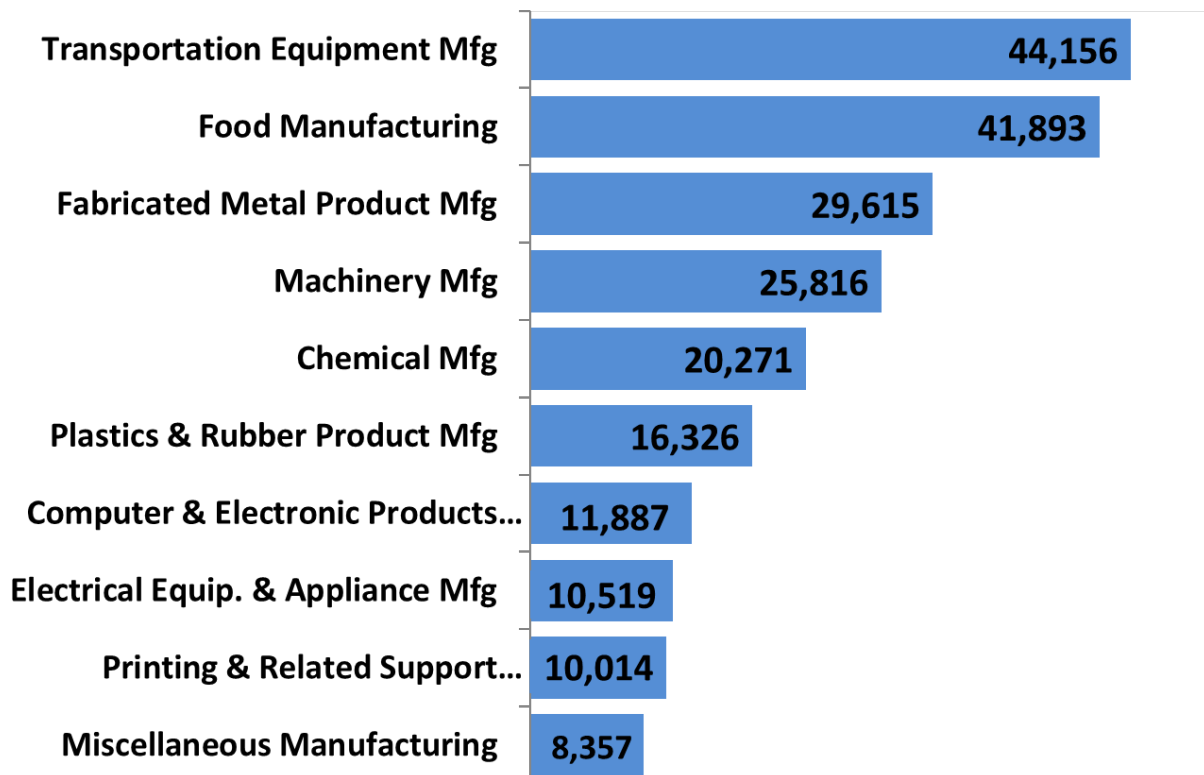


Economic Contribution

Manufacturing industries make a significant contribution to the Missouri economy, directly and indirectly. Manufacturing's contribution to the Missouri economy is measured in terms of jobs created, incomes earned and value-added. Value-added, a measure of industry sales minus production costs, refers to an industry's share of Gross State Product (GSP). Missouri had an estimated 6,864 manufacturing establishments in 2020 that directly employed 266,439 workers, providing approximately \$16.48 billion in payroll and an 11.8 percent share of Missouri's total GSP.

2020 MISSOURI TOP 10 MANUFACTURING INDUSTRIES

Direct Employment



Source: U.S. Bureau of Labor Statistics

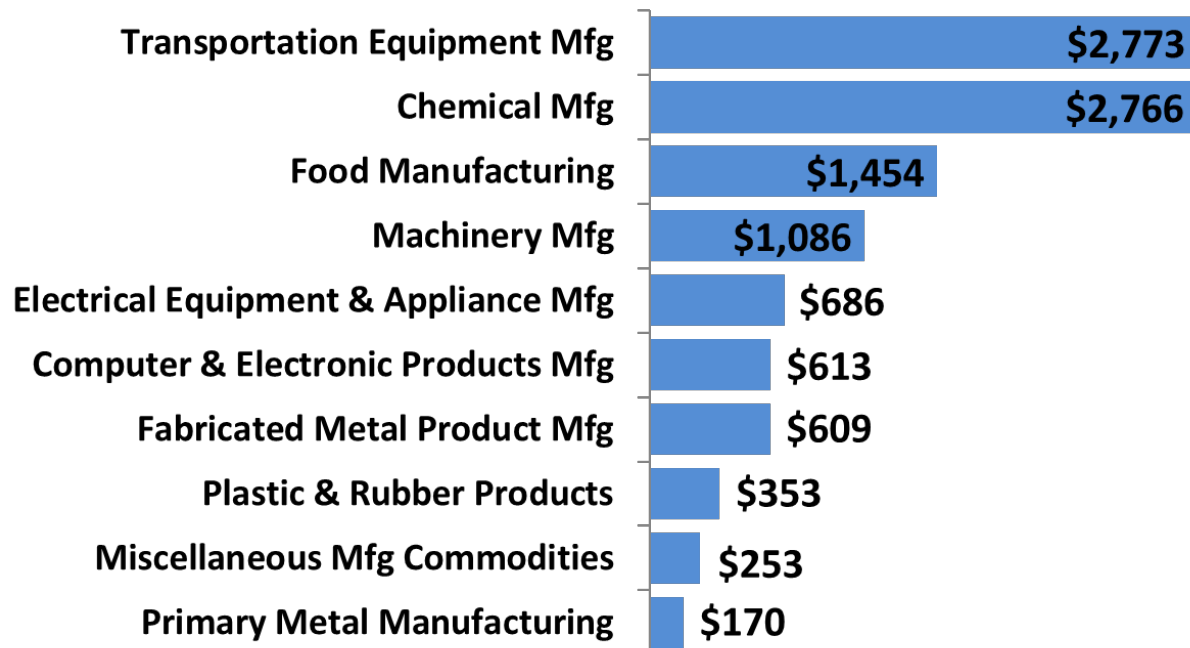
2020 Manufacturing Exports

Manufacturing exports totaled nearly \$12.8 billion dollars. This is down from roughly \$13.4 billion in 2019 and \$14.5 billion in 2018. Missouri's highest industry exports were *Transportation Equipment* and *Chemical* manufacturing. The largest gain within the top 10 industries was *Food Products* manufacturing, which rose 8.1 percent in 2020 to \$1,454 million.

Of the top 10 exports, *Computer and Electronic Products* manufacturing had the greatest decline at 17.4 percent, from \$742 million in 2019 to \$613 million in 2020.

2020 MISSOURI TOP 10 MANUFACTURING EXPORTS

in millions of dollars



Source: 2020 Wisser Trade

International Markets

Over \$12.8 billion worth of both manufactured and other commodity products were shipped to other countries through Missouri ports. The top export destinations were Canada and Mexico followed by China, Germany, Republic of Korea, Japan, France, United Kingdom, Brazil, and the Netherlands. In 2020, Missouri's high-value shipment to Canada and Republic of Korea was *Transportation Equipment*; to Mexico, China, and Japan was *Food Products*; and to Germany, France, Brazil, and the Netherlands was *Chemicals*.

2020 Annual Missouri Exports Top 10 Destinations & Export Product		
Country	Export Value	Primary Export
Canada	\$4,475,922,318	Transportation Equipment
Mexico	\$2,170,795,625	Food and Kindred Products
China	\$679,066,926	Food and Kindred Products
Germany	\$538,456,870	Chemicals
Korea, Republic Of	\$474,104,794	Transportation Equipment
Japan	\$468,800,117	Food and Kindred Products
France	\$322,301,248	Chemicals
United Kingdom	\$313,144,485	Machinery Except Electrical
Brazil	\$291,541,253	Chemicals
Netherlands	\$272,550,826	Chemicals

Source: 2020 Wisser Trade

Notes:

Gross State Product data was obtained from the U.S. Bureau of Economic Analysis.

Employment numbers were obtained from the Quarterly Census of Employment and Wages (QCEW), U.S. Bureau of Labor Statistics. Industries are classified according to North American Industry Classification System (NAICS).

Location quotients were generated for manufacturing industries using 2020 annual U.S. Bureau of Labor Statistics data.

Missouri manufacturing export data were obtained from the World Institute for Strategic Economic Research (WISER) Trade database.

NAICS Industry Description

311	Food Products
312	Beverage and Tobacco Products
313	Textile Mills
314	Textile Product Mills
315	Apparel
316	Leather and Allied Products
321	Wood Products
322	Paper
323	Printing
324	Petroleum and Coal Products
325	Chemicals
326	Plastics and Rubber Products
327	Nonmetallic Mineral Products
331	Primary Metal
332	Fabricated Metal Products
333	Machinery
334	Computer and Electronic Products
335	Electrical Equipment
336	Transportation Equipment
337	Furniture
339	Miscellaneous

The data contained in this report focuses on economic and industry activity in Missouri, using the most reliable and proven economic and workforce data resources available. Typically, these high-quality sources have some lag in publication due to the sound and thorough methodologies used to ensure accurate and reliable data. Analysis of economic shifts will always rely on these key sources for the most precise representation of the economy, and Missouri will continue to monitor these indicators throughout the state's economic recovery.

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